

SEVERN
TRENT
SERVICES

STL Seattle
5755 8th Street East
Tacoma, WA 98424

Tel: 253 922 2310
Fax: 253 922 5047
www.stl-inc.com

TRANSMITTAL MEMORANDUM

DATE: March 7, 2002

TO: Janette Rau
URS Corporation
1501 4th Ave Suite 1400
Seattle, WA 98101-1616

PROJECT: Former NPDLab SI, Troutdale, Or

REPORT NUMBER: 103972

TOTAL NUMBER OF PAGES: 666

Enclosed are the test results for four samples received at STL Seattle on February 13, 2002.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,


Dawn Werner
Project Manager

STL Seattle is a part of Severn Trent Laboratories, Inc.

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 253-922-2310 and destroy this report immediately.

STL Seattle

Sample Identification:

<u>Lab. No.</u>	<u>Client ID</u>	<u>Date/Time Sampled</u>	<u>Matrix</u>
103972-1	MW-003	02-13-02 09:15	Liquid
103972-2	MW-004	02-12-02 15:15	Liquid
103972-3	MW-303	02-13-02 11:00	Liquid
103972-4	TB-021302	02-12-02 *	Liquid

* - Sampling time not specified for this sample

STL Seattle is a part of Severn Trent Laboratories, Inc.

2

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 253-922-2310 and destroy this report immediately.



STL Seattle
5755 8th Street East
Tacoma, WA 98424

Tel: 253 922 2310
Fax: 253 922 5047
www.stl-inc.com

ANALYTICAL NARRATIVE

Client: URS Corporation

Date: March 7, 2002

Project: Former NPDLab SI, Troutdale, Or

Lab No.: 103972

Delivered By: Submitter

Condition of samples upon receipt: Samples were received in good condition. Cooler temperatures have been recorded on the cooler receipt form included in the chain of custody section of this package. Chain of custody was in order.

Sample Identification:

<u>Lab. No.</u>	<u>Client ID</u>	<u>Date Sampled</u>	<u>Matrix</u>
103972-1	MW-003	02-13-02	Liquid
103972-2	MW-004	02-12-02	Liquid
103972-3	MW-303	02-13-02	Liquid
103972-4	TB-021302	02-12-02	Liquid

SAMPLE EXTRACTION AND ANALYSIS

VOLATILE ORGANICS

Samples 103972-1 through 103972-4 were analyzed for volatile organics in accordance with EPA Method 8260B. The samples were prepared and analyzed on 2-15-02, which was within the required holding time.

All quality control was within the acceptance limits.

No difficulties were encountered during the volatile organic analyses.

SEMICVOLATILE ORGANICS

Samples 103972-1 through 103972-3 were analyzed for semivolatile organics in accordance with EPA Method 8270C. The samples were extracted on 2-14-02 and analyzed on 2-18-02, which was within the required holding time.

STL Seattle is a part of Severn Trent Laboratories, Inc.

STL Seattle

Client: URS Corporation

Date: March 7, 2002

Project: Former NPDLab SI, Troutdale, Or

Lab No.: 103972

SEMIVOLATILE ORGANICS CONTINUED

The percent recovery of p-terphenyl-d14 (surrogate) in sample 103972-2 exceeded the quality control limits. The percent recoveries of the remaining surrogate compounds were within the acceptance limits. No further action was taken on this outlier.

Low-level chrysene contamination was present in the method blank associated with sample batch SW0281. The reported value is above the MDL, but below the PQL. The data have been flagged "B1" or "B2" as appropriate.

The percent recoveries of N-Nitroso-di-n-propylamine, Acenaphthene and pyrene failed high in the blank spike / blank spike duplicate associated with sample batch SW0281. The sample exhibited low-level phenol and cresol hits and one PAH hit below the PQL. No further action was taken on these outliers.

All other quality control was within the acceptance limits.

No other difficulties were encountered during the semivolatile organic analyses.

ORGANOCHLORINE PESTICIDES AND PCBs

Samples 103972-1 through 103972-3 were analyzed for organochlorine pesticides and PCBs in accordance with EPA Methods 8081/8082. The samples were prepared/extracted on 2-14-02 and analyzed on 2-16-02, which was within the required holding time.

All reported values underwent second column confirmation. The data are flagged "C1" or "C2" as appropriate.

The percent recovery of decachlorobiphenyl (surrogate) in samples 103792-1 through 103792-3 exceeded the quality control limits due to matrix interferences.

All quality control was within the acceptance limits.

No difficulties were encountered during the chlorinated pesticides and PCB analyses.

TOTAL METALS

Samples 103972-1 through 103972-3 were analyzed for total metals in accordance with EPA Methods 6010/6020/7470. The samples were digested and analyzed on 2-14-02 and 2-15-02, which was within the required holding time.

Low-level antimony contamination was present in the method blank associated with sample batch TP342. The reported value is above the MDL, but below the PQL. The data have been flagged "B1" or "B2" as appropriate.

The relative percent difference values for barium, zinc and antimony in the duplicate analysis of sample 103972-1 exceeded the quality control limits due to analyte levels near the practical quantitation limits.

STL Seattle is a part of Severn Trent Laboratories, Inc.

4

SOUND ANALYTICAL SERVICES, INC.

Client: URS Corporation

Date: March 7, 2002

Project: Former NPDLab SI, Troutdale, Or

Lab No.: 103972

TOTAL METALS CONTINUED

The percent difference values for several metals in the serial dilution of sample 103972-1 exceeded the control limits.

All other quality control was within the acceptance limits.

No other difficulties were encountered during the total metals analyses.

Metals data are submitted in CLP like format.

DISSOLVED METALS

Samples 103972-1 through 103972-3 were analyzed for dissolved metals in accordance with EPA Methods 6010/6020/7470. The samples were digested and analyzed on 2-14-02 and 2-15-02, which was within the required holding time.

The percent recovery of sodium and mercury in the matrix spike analysis of sample 103972-1 exceeded the quality control limits. Matrix interferences are indicated based on acceptable recoveries of the associated blank spike (DP343 & ZD801).

The relative percent difference value for copper in the duplicate analysis of sample 103972-1 exceeded the quality control limits due to analyte levels near the practical quantitation limit.

The percent difference values for several metals in the serial dilution of sample 103972-1 exceeded the control limits.

All other quality control was within the acceptance limits.

No other difficulties were encountered during the dissolved metals analyses.

Metals data are submitted in CLP like format.

CYANIDE

Samples 103972-1 through 103972-3 were analyzed for total cyanide in accordance with EPA Method 335.3. The samples were analyzed on 2-19-02, which was within the required holding time.

All quality control was within the acceptance limits.

No difficulties were encountered during the total cyanide analyses.

STL Seattle

Client Name: URS Corporation
 Client ID: MW-003
 Lab ID: 103972-01
 Date Received: 2/13/02
 Date Prepared: 2/15/02
 Date Analyzed: 2/15/02
 % Solids
 Dilution Factor: 1

Volatile Organics by USEPA Method 5030/8260B

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	106		85	114
Fluorobenzene	104		91	110
Toluene-D8	96.5		92	107
Ethylbenzene-d10	102		86	108
Bromofluorobenzene	102		87	110

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	1	0.5	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2	1	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
1,1,2-Trichlorotrifluoroethane	ND	1	0.5	
Carbon disulfide	ND	1	0.5	
Acetone	ND	5	2.5	
Methylene chloride	ND	1	0.5	
Methyl tert-butyl ether	ND	1	0.5	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2-Butanone	ND R	5	2.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
4-Methyl-2-pentanone	ND	5	2.5	

mw 3/27/02

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 103972-01 continued...

Analyte	Result (ug/L)	PQL	MRL
Toluene	ND	1	0.5
trans-1,3-Dichloropropene	ND	1	0.5
Tetrachloroethene	ND	1	0.5
2-Hexanone	ND	5	2.5
Dibromochloromethane	ND	1	0.5
1,2-Dibromoethane	ND	1	0.5
Chlorobenzene	ND	1	0.5
Ethylbenzene	ND	1	0.5
1,1,1,2-Tetrachloroethane	ND	1	0.5
m,p-Xylene	ND	2	1
o-Xylene	ND	1	0.5
Styrene	ND	1	0.5
Bromoform	ND	1	0.5
Isopropylbenzene	ND	1	0.5
1,1,2,2-Tetrachloroethane	ND	1	0.5
1,3-Dichlorobenzene	ND	1	0.5
1,4-Dichlorobenzene	ND	1	0.5
1,2-Dichlorobenzene	ND	1	0.5
1,2-Dibromo-3-chloropropane	ND	1	0.5
1,2,4-Trichlorobenzene	ND	1	0.5
Cyclohexane	ND	1	0.5
Methyl acetate	ND	5	2.5
Methylcyclohexane	ND	1	0.5

STL Seattle

Client Name: URS Corporation
 Client ID: MW-004
 Lab ID: 103972-02
 Date Received: 2/13/02
 Date Prepared: 2/15/02
 Date Analyzed: 2/15/02
 % Solids:
 Dilution Factor: 1

Volatile Organics by USEPA Method 5030/8260B

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	99.5		85	114
Fluorobenzene	98.6		91	110
Toluene-D8	103		92	107
Ethylbenzene-d10	99.8		86	108
Bromofluorobenzene	103		87	110

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	1	0.5	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2	1	
Chloroethane	ND	1	0.5	
Trichlorodifluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
1,1,2-Trichlorotrifluoroethane	ND	1	0.5	
Carbon disulfide	ND	1	0.5	
Acetone	ND	5	2.5	
Methylene chloride	ND	1	0.5	
Methyl tert-butyl ether	ND	1	0.5	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2-Butanone	ND R	5	2.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
4-Methyl-2-pentanone	ND	5	2.5	

mn 3/29/02

8

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 103972-02 continued...

Analyte	Result (ug/L)	PQL	MRL
Toluene	ND	1	0.5
trans-1,3-Dichloropropene	ND	1	0.5
Tetrachloroethene	ND	1	0.5
2-Hexanone	ND	5	2.5
Dibromochloromethane	ND	1	0.5
1,2-Dibromoethane	ND	1	0.5
Chlorobenzene	ND	1	0.5
Ethylbenzene	ND	1	0.5
1,1,1,2-Tetrachloroethane	ND	1	0.5
m,p-Xylene	ND	2	1
o-Xylene	ND	1	0.5
Styrene	ND	1	0.5
Bromoform	ND	1	0.5
Isopropylbenzene	ND	1	0.5
1,1,2,2-Tetrachloroethane	ND	1	0.5
1,3-Dichlorobenzene	ND	1	0.5
1,4-Dichlorobenzene	ND	1	0.5
1,2-Dichlorobenzene	ND	1	0.5
1,2-Dibromo-3-chloropropane	ND	1	0.5
1,2,4-Trichlorobenzene	ND	1	0.5
Cyclohexane	ND	1	0.5
Methyl acetate	ND	5	2.5
Methylcyclohexane	ND	1	0.5

STL Seattle

Client Name	URS Corporation
Client ID:	MW-303
Lab ID:	103972-03
Date Received:	2/13/02
Date Prepared:	2/15/02
Date Analyzed:	2/15/02
% Solids	
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	99.1		85	114
Fluorobenzene	103		91	110
Toluene-D8	97.4		92	107
Ethylbenzene-d10	101		86	108
Bromofluorobenzene	103		87	110

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	1	0.5	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2	1	
Chloroethane	ND	1	0.5	
Trichlorodifluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
1,1,2-Trichlorotrifluoroethane	ND	1	0.5	
Carbon disulfide	ND	1	0.5	
Acetone	ND	5	2.5	
Methylene chloride	ND	1	0.5	
Methyl tert-butyl ether	ND	1	0.5	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2-Butanone	ND R	5	2.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
4-Methyl-2-pentanone	ND	5	2.5	

MN 3/29/02

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 103972-03 continued...

Analyte	Result (ug/L)	PQL	MRL
Toluene	ND	1	0.5
trans-1,3-Dichloropropene	ND	1	0.5
Tetrachloroethene	ND	1	0.5
2-Hexanone	ND	5	2.5
Dibromochloromethane	ND	1	0.5
1,2-Dibromoethane	ND	1	0.5
Chlorobenzene	ND	1	0.5
Ethylbenzene	ND	1	0.5
1,1,1,2-Tetrachloroethane	ND	1	0.5
m,p-Xylene	ND	2	1
o-Xylene	ND	1	0.5
Styrene	ND	1	0.5
Bromoform	ND	1	0.5
Isopropylbenzene	ND	1	0.5
1,1,2,2-Tetrachloroethane	ND	1	0.5
1,3-Dichlorobenzene	ND	1	0.5
1,4-Dichlorobenzene	ND	1	0.5
1,2-Dichlorobenzene	ND	1	0.5
1,2-Dibromo-3-chloropropane	ND	1	0.5
1,2,4-Trichlorobenzene	ND	1	0.5
Cyclohexane	ND	1	0.5
Methyl acetate	ND	5	2.5
Methylcyclohexane	ND	1	0.5

STL Seattle

Client Name	URS Corporation
Client ID:	TB-021302
Lab ID:	103972-04
Date Received:	2/13/02
Date Prepared:	2/15/02
Date Analyzed:	2/15/02
% Solids	
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	100		85	114
Fluorobenzene	96.7		91	110
Toluene-D8	96.6		92	107
Ethylbenzene-d10	102		86	108
Bromofluorobenzene	97.2		87	110

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	1	0.5	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2	1	
Chloroethane	ND	1	0.5	
Trichlorodifluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
1,1,2-Trichlorotrifluoroethane	ND	1	0.5	
Carbon disulfide	ND	1	0.5	
Acetone	ND	5	2.5	
Methylene chloride	ND	1	0.5	
Methyl tert-butyl ether	ND	1	0.5	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2-Butanone	ND R	5	2.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromoform	ND	1	0.5	
Chloroform	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
4-Methyl-2-pentanone	ND	5	2.5	

mn 3/29/02

12

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 103972-04 continued...

Analyte	Result (ug/L)	PQL	MRL
Toluene	ND	1	0.5
trans-1,3-Dichloropropene	ND	1	0.5
Tetrachloroethene	ND	1	0.5
2-Hexanone	ND	5	2.5
Dibromochloromethane	ND	1	0.5
1,2-Dibromoethane	ND	1	0.5
Chlorobenzene	ND	1	0.5
Ethylbenzene	ND	1	0.5
1,1,1,2-Tetrachloroethane	ND	1	0.5
m,p-Xylene	ND	2	1
o-Xylene	ND	1	0.5
Styrene	ND	1	0.5
Bromoform	ND	1	0.5
Isopropylbenzene	ND	1	0.5
1,1,2,2-Tetrachloroethane	ND	1	0.5
1,3-Dichlorobenzene	ND	1	0.5
1,4-Dichlorobenzene	ND	1	0.5
1,2-Dichlorobenzene	ND	1	0.5
1,2-Dibromo-3-chloropropane	ND	1	0.5
1,2,4-Trichlorobenzene	ND	1	0.5
Cyclohexane	ND	1	0.5
Methyl acetate	ND	5	2.5
Methylcyclohexane	ND	1	0.5

STL Seattle

Client Name URS Corporation
 Client ID: MW-003
 Lab ID: 103972-01
 Date Received: 2/13/2002
 Date Prepared: 2/14/2002
 Date Analyzed: 2/18/2002
 % Solids
 Dilution Factor 10

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	82		50	145
2 - Fluorobiphenyl	76.1		55	130
p - Terphenyl - d14	130		54	139
Phenol - d5	27.7		10	90
2 - Fluorophenol	43.9		10	117
2,4,6 - Tribromophenol	47.5		46	156

Analyte	Result (ug/L)	PQL	MDL	Flags
Phenol	ND	0.986	0.316	
bis(2-Chloroethyl)ether	ND	0.986	0.187	
2-Chlorophenol	ND	0.986	0.168	
2-Methylphenol	ND	0.986	0.237	
bis(2-Chloroisopropyl)ether	ND	0.986	0.207	
3- & 4-Methylphenol	ND	0.986	0.227	
N-nitroso-di-n-propylamine	ND	0.986	0.207	
Hexachloroethane	ND	0.986	0.394	
Nitrobenzene	ND	0.986	0.444	
Isophorone	ND	0.986	0.178	
2-Nitrophenol	ND	0.986	0.217	
2,4-Dimethylphenol	ND	0.986	0.148	
bis(2-Chloroethoxy)methane	ND	0.986	0.178	
2,4-Dichlorophenol	ND	0.986	0.148	
Naphthalene	ND	0.0986	0.0216	
4-Chloroaniline	ND	0.986	0.385	
Hexachlorobutadiene	ND	0.986	0.286	
4-Chloro-3-methylphenol	ND	0.986	0.533	
2-Methylnaphthalene	ND	0.0986	0.015	
Hexachlorocyclopentadiene	ND	0.986	0.256	
2,4,6-Trichlorophenol	ND	0.986	0.118	
2,4,5-Trichlorophenol	ND	0.986	0.108	
2-Choronaphthalene	ND	0.0986	0.0134	
2-Nitroaniline	ND	0.986	0.178	
Dimethylphthalate	ND	0.986	0.158	
Acenaphthylene	ND	0.0986	0.015	

STL Seattle

Semivolatile Organics by USEPA Method 8270 data for 103972-01 continued...

Analyte	Result (ug/L)	PQL	MDL
2,6-Dinitrotoluene	ND	0.986	0.197
3-Nitroaniline	ND	0.986	0.325
Acenaphthene	ND	0.0986	0.0155
2,4-Dinitrophenol	ND	4.93	0.296
4-Nitrophenol	ND	4.93	0.286
Dibenzofuran	ND	0.986	0.138
2,4-Dinitrotoluene	ND	0.986	0.128
Diethylphthalate	ND	0.986	0.572
4-Chlorophenylphenylether	ND	0.986	0.148
Fluorene	ND	0.0986	0.0134
4-Nitroaniline	ND	0.986	0.306
4,6-Dinitro-2-methylphenol	ND	4.93	0.217
N-Nitrosodiphenylamine	ND	0.986	0.0986
4-Bromophenylphenylether	ND	0.986	0.118
Hexachlorobenzene	ND	0.986	0.197
Pentachlorophenol	ND	0.986	0.168
Phenanthrene	ND	0.0986	0.0219
Anthracene	ND	0.0986	0.015
Di-n-butylphthalate	ND	4.93	2.28
Fluoranthene	ND	0.0986	0.0186
Pyrene	ND	0.0986	0.0134
Butylbenzylphthalate	ND	4.93	1.84
3,3'-Dichlorobenzidine	ND	0.986	0.355
Benzo(a)anthracene	ND	0.0986	0.0431
Chrysene	ND	0.0986	0.0242
bis(2-Ethylhexyl)phthalate	ND	0.986	0.641
Di-n-octylphthalate	ND	0.986	0.335
Benzofluoranthenes	ND	0.197	0.0375
Benzo(a)pyrene	ND	0.0986	0.0463
Indeno(1,2,3-cd)pyrene	ND	0.0986	0.03
Benzo(g,h,i)perylene	ND	0.0986	0.0338
Carbazole	ND	0.986	0.276
Atrazine	ND	0.986	0.549
Biphenyl	ND	0.986	0.154
Acetophenone	ND	0.986	0.236
Benzaldehyde	ND	0.986	0.364

STL Seattle

Client Name	URS Corporation
Client ID:	MW-004
Lab ID:	103972-02
Date Received:	2/13/2002
Date Prepared:	2/14/2002
Date Analyzed:	2/18/2002
% Solids	-
Dilution Factor	10

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	115		50	145
2 - Fluorobiphenyl	130		55	130
p - Terphenyl - d14	157	N	54	139
Phenol - d5	40.6		10	90
2 - Fluorophenol	69.7		10	117
2,4,6 - Tribromophenol	118		46	156

Analyte	Result (ug/L)	PQL	MDL	Flags
Phenol	0.497	1.02	0.327	J
bis(2-Chloroethyl)ether	ND	1.02	0.194	
2-Chlorophenol	ND	1.02	0.174	
2-Methylphenol	0.249	1.02	0.245	
bis(2-Chloroisopropyl)ether	ND	1.02	0.215	
3- & 4-Methylphenol	2.8	1.02	0.235	
N-nitroso-di-n-propylamine	ND	1.02	0.215	
Hexachloroethane	ND	1.02	0.409	
Nitrobenzene	ND	1.02	0.46	
Isophorone	ND	1.02	0.184	
2-Nitrophenol	ND	1.02	0.225	
2,4-Dimethylphenol	ND	1.02	0.153	
bis(2-Chloroethoxy)methane	ND	1.02	0.184	
2,4-Dichlorophenol	ND	1.02	0.153	
Naphthalene	ND	0.102	0.0224	
4-Chloroaniline	ND	1.02	0.399	
Hexachlorobutadiene	ND	1.02	0.297	
4-Chloro-3-methylphenol	ND	1.02	0.552	
2-Methylnaphthalene	ND	0.102	0.0156	
Hexachlorocyclopentadiene	ND	1.02	0.266	
2,4,6-Trichlorophenol	ND	1.02	0.123	
2,4,5-Trichlorophenol	ND	1.02	0.112	
2-Chloronaphthalene	ND	0.102	0.0139	
2-Nitroaniline	ND	1.02	0.184	
Dimethylphthalate	ND	1.02	0.164	
Acenaphthylene	ND	0.102	0.0156	

STL Seattle

Semivolatile Organics by USEPA Method 8270 data for 103972-02 continued...

Analyte	Result (ug/L)	PQL	MDL
2,6-Dinitrotoluene	ND	1.02	0.204
3-Nitroaniline	ND	1.02	0.337
Acenaphthene	ND	0.102	0.0161
2,4-Dinitrophenol	ND	5.11	0.307
4-Nitrophenol	ND	5.11	0.297
Dibenzofuran	ND	1.02	0.143
2,4-Dinitrotoluene	ND	1.02	0.133
Diethylphthalate	ND	1.02	0.593
4-Chlorophenylphenylether	ND	1.02	0.153
Fluorene	ND	0.102	0.0139
4-Nitroaniline	ND	1.02	0.317
4,6-Dinitro-2-methylphenol	ND	5.11	0.225
N-Nitrosodiphenylamine	ND	1.02	0.102
4-Bromophenylphenylether	ND	1.02	0.123
Hexachlorobenzene	ND	1.02	0.204
Pentachlorophenol	ND	1.02	0.174
Phenanthrene	ND	0.102	0.0227
Anthracene	ND	0.102	0.0156
Di-n-butylphthalate	ND	5.11	2.36
Fluoranthene	ND	0.102	0.0193
Pyrene	ND	0.102	0.0139
Butylbenzylphthalate	ND	5.11	1.91
3,3'-Dichlorobenzidine	ND	1.02	0.368
Benzo(a)anthracene	ND	0.102	0.0447
Chrysene	ND	0.102	0.0251
bis(2-Ethylhexyl)phthalate	ND	1.02	0.665
Di-n-octylphthalate	ND	1.02	0.348
Benzofluoranthenes	ND	0.204	0.0389
Benzo(a)pyrene	ND	0.102	0.048
Indeno(1,2,3-cd)pyrene	ND	0.102	0.0311
Benzo(g,h,i)perylene	ND	0.102	0.035
Carbazole	ND	1.02	0.286
Atrazine	ND	1.02	0.57
Biphenyl	ND	1.02	0.16
Acetophenone	ND	1.02	0.244
Benzaldehyde	ND	1.02	0.377

STL Seattle

Client Name	URS Corporation
Client ID:	MW-303
Lab ID:	103972-03
Date Received:	2/13/2002
Date Prepared:	2/14/2002
Date Analyzed:	2/18/2002
% Solids	
Dilution Factor	10

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	108		50	145
2 - Fluorobiphenyl	111		55	130
p - Terphenyl - d14	117		54	139
Phenol - d5	31.3		10	90
2 - Fluorophenol	57.8		10	117
2,4,6 - Tribromophenol	107		46	156

Analyte	Result (ug/L)	PQL	MDL	Flags
Phenol	ND	1	0.32	
bis(2-Chloroethyl)ether	ND	1	0.19	
2-Chlorophenol	ND	1	0.17	
2-Methylphenol	ND	1	0.24	
bis(2-Chloroisopropyl)ether	ND	1	0.21	
3- & 4-Methylphenol	ND	1	0.23	
N-nitroso-di-n-propylamine	ND	1	0.21	
Hexachloroethane	ND	1	0.4	
Nitrobenzene	ND	1	0.45	
Isophorone	ND	1	0.18	
2-Nitrophenol	ND	1	0.22	
2,4-Dimethylphenol	ND	1	0.15	
bis(2-Chloroethoxy)methane	ND	1	0.18	
2,4-Dichlorophenol	ND	1	0.15	
Naphthalene	ND	0.1	0.0219	
4-Chloroaniline	ND	1	0.39	
Hexachlorobutadiene	ND	1	0.29	
4-Chloro-3-methylphenol	ND	1	0.54	
2-Methylnaphthalene	ND	0.1	0.0152	
Hexachlorocyclopentadiene	ND	1	0.26	
2,4,6-Trichlorophenol	ND	1	0.12	
2,4,5-Trichlorophenol	ND	1	0.11	
2-Chloronaphthalene	ND	0.1	0.0136	
2-Nitroaniline	ND	1	0.18	
Dimethylphthalate	ND	1	0.16	
Acenaphthylene	ND	0.1	0.0152	

STL Seattle

Semivolatile Organics by USEPA Method 8270 data for 103972-03 continued...

Analyte		Result (ug/L)	PQL	MDL	
2,6-Dinitrotoluene	ND		1	0.2	
3-Nitroaniline	ND		1	0.33	
Acenaphthene	ND		0.1	0.0157	
2,4-Dinitrophenol	ND		5	0.3	
4-Nitrophenol	ND		5	0.29	
Dibenzofuran	ND		1	0.14	
2,4-Dinitrotoluene	ND		1	0.13	
Diethylphthalate	ND		1	0.58	
4-Chlorophenylphenylether	ND		1	0.15	
Fluorene	ND		0.1	0.0136	
4-Nitroaniline	ND		1	0.31	
4,6-Dinitro-2-methylphenol	ND		5	0.22	
N-Nitrosodiphenylamine	ND		1	0.1	
4-Bromophenylphenylether	ND		1	0.12	
Hexachlorobenzene	ND		1	0.2	
Pentachlorophenol	ND		1	0.17	
Phenanthrene		0.0629	0.1	0.0222	J
Anthracene	ND		0.1	0.0152	
Di-n-butylphthalate	ND		5	2.31	
Fluoranthene	ND		0.1	0.0188	
Pyrene	ND		0.1	0.0136	
Butylbenzylphthalate	ND		5	1.87	
3,3'-Dichlorobenzidine	ND		1	0.36	
Benzo(a)anthracene	ND		0.1	0.0438	
Chrysene	ND		0.1	0.0245	
bis(2-Ethylhexyl)phthalate	ND		1	0.65	
Di-n-octylphthalate	ND		1	0.34	
Benzofluoranthenes	ND		0.2	0.038	
Benzo(a)pyrene	ND		0.1	0.047	
Indeno(1,2,3-cd)pyrene	ND		0.1	0.0304	
Benzo(g,h,i)perylene	ND		0.1	0.0343	
Carbazole	ND		1	0.28	
Atrazine	ND		1	0.557	
Biphenyl	ND		1	0.156	
Acetophenone	ND		1	0.239	
Benzaldehyde	ND		1	0.369	

STL Seattle

Client Name: URS Corporation
 Client ID: MW-003
 Lab ID: 103972-01
 Date Received: 2/13/2002
 Date Prepared: 2/14/2002
 Date Analyzed: 2/16/2002
 % Solids
 Dilution Factor 1

Organochlorine Pesticides and PCBs by USEPA Methods 8081A/8082

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Tetrachloro-m-xylene	87.6		70	122
Decachlorobiphenyl	53.3	X9	64	130

Analyte	Result (ug/L)	PQL	MDL	Flags
Aroclor 1016	ND	0.0995	0.02	
Aroclor 1221	ND	0.199	0.0497	
Aroclor 1232	ND	0.0995	0.0236	
Aroclor 1242	ND	0.0995	0.0328	
Aroclor 1248	ND	0.0995	0.0155	
Aroclor 1254	ND	0.0995	0.02	
Aroclor 1260	ND	0.0995	0.0109	
Aldrin	ND	0.00995	0.00114	
alpha-BHC	ND	0.00995	0.00366	
beta-BHC	ND	0.00995	0.00425	
delta-BHC	ND	0.00995	0.00234	
gamma-BHC (Lindane)	ND	0.00995	0.00716	
Chlordane (technical)	ND	0.0995	0.0319	
4,4'-DDD	ND	0.0199	0.00469	
4,4'-DDE	ND	0.0199	0.00388	
4,4'-DDT	ND	0.0199	0.00497	
Dieldrin	ND	0.0199	0.003	
Endosulfan I	ND	0.00995	0.00496	
Endosulfan II	ND	0.0199	0.00377	
Endosulfan sulfate	ND	0.0199	0.00535	
Endrin	ND	0.0199	0.00308	
Endrin aldehyde	ND	0.0199	0.00968	
Heptachlor	ND	0.00995	0.0075	
Heptachlor epoxide	ND	0.00995	0.00372	
Methoxychlor	ND	0.0995	0.00534	
Endrin ketone	ND	0.0199	0.00343	

STL Seattle

Organochlorine Pesticides and PCBs by USEPA Methods 8081A/8082 data for 103972-01 continued...

Analyte	Result (ug/L)	PQL	MDL	Flags
Toxaphene	ND	0.995	0.116	

STL Seattle

Client Name: URS Corporation
 Client ID: MW-004
 Lab ID: 103972-02
 Date Received: 2/13/2002
 Date Prepared: 2/14/2002
 Date Analyzed: 2/16/2002
 % Solids:
 Dilution Factor: 1

Organochlorine Pesticides and PCBs by USEPA Methods 8081A/8082

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Tetrachloro-m-xylene	83.7		70	122
Decachlorobiphenyl	57.2	X9	64	130

Analyte	Result (ug/L)	PQL	MDL	Flags
Aroclor 1016	ND	0.104	0.0209	
Aroclor 1221	ND	0.208	0.052	
Aroclor 1232	ND	0.104	0.0247	
Aroclor 1242	ND	0.104	0.0343	
Aroclor 1248	ND	0.104	0.0162	
Aroclor 1254	ND	0.104	0.0209	
Aroclor 1260	ND	0.104	0.0114	
Aldrin	ND	0.0104	0.00119	
alpha-BHC	ND	0.0104	0.00382	
beta-BHC	ND	0.0104	0.00444	
delta-BHC	ND	0.0104	0.00244	
gamma-BHC (Lindane)	ND	0.0104	0.00748	
Chlordane (technical)	ND	0.104	0.0333	
4,4'-DDD	ND	0.0208	0.0049	
4,4'-DDE	ND	0.0208	0.00406	
4,4'-DDT	ND	0.0208	0.00519	
Dieldrin	ND	0.0208	0.00314	
Endosulfan I	ND	0.0104	0.00518	
Endosulfan II	ND	0.0208	0.00393	
Endosulfan sulfate	ND	0.0208	0.00559	
Endrin	ND	0.0208	0.00322	
Endrin aldehyde	ND	0.0208	0.0101	
Heptachlor	ND	0.0104	0.00783	
Heptachlor epoxide	ND	0.0104	0.00389	
Methoxychlor	ND	0.104	0.00558	
Endrin ketone	ND	0.0208	0.00358	

STL Seattle

Organochlorine Pesticides and PCBs by USEPA Methods 8081A/8082 data for 103972-02 continued...

Analyte	Result (ug/L)	PQL	MDL	Flags
Toxaphene	ND	1.04	0.121	

STL Seattle

Client Name: URS Corporation
 Client ID: MW-303
 Lab ID: 103972-03
 Date Received: 2/13/2002
 Date Prepared: 2/14/2002
 Date Analyzed: 2/16/2002
 % Solids
 Dilution Factor: 1

Organochlorine Pesticides and PCBs by USEPA Methods 8081A/8082

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Tetrachloro-m-xylene	73.5		70	122
Décachlorobiphenyl	35.2	X9	64	130

Analyte	Result (ug/L)	PQL	MDL	Flags
Aroclor 1016	ND	0.1	0.0201	
Aroclor 1221	ND	0.2	0.05	
Aroclor 1232	ND	0.1	0.0238	
Aroclor 1242	ND	0.1	0.033	
Aroclor 1248	ND	0.1	0.0156	
Aroclor 1254	ND	0.1	0.0201	
Aroclor 1260	ND	0.1	0.011	
Aldrin	ND	0.01	0.00115	
alpha-BHC	ND	0.01	0.00368	
beta-BHC	ND	0.01	0.00428	
delta-BHC	ND	0.01	0.00235	
gamma-BHC (Lindane)	ND	0.01	0.0072	
Chlordane (technical)	ND	0.1	0.0321	
4,4'-DDD	ND	0.02	0.00472	
4,4'-DDE	ND	0.02	0.00391	
4,4'-DDT	ND	0.02	0.005	
Dieldrin	ND	0.02	0.00302	
Endosulfan I	ND	0.01	0.00499	
Endosulfan II	ND	0.02	0.00379	
Endosulfan sulfate	ND	0.02	0.00538	
Endrin	ND	0.02	0.0031	
Endrin aldehyde	ND	0.02	0.00974	
Heptachlor	ND	0.01	0.00754	
Heptachlor epoxide	ND	0.01	0.00374	
Methoxychlor	ND	0.1	0.00538	
Endrin ketone	ND	0.02	0.00345	

mn 3/20/02

24

STL Seattle

Organochlorine Pesticides and PCBs by USEPA Methods 8081A/8082 data for 103972-03 continued...

Analyte	Result (ug/L)	PQL	MDL	Flags
Toxaphene	ND	U5	1	0.117

mn 3/20/02

STL Seattle

Client Name	URS Corporation
Client ID:	MW-003
Lab ID:	103972-01
Date Received:	2/13/02
Date Prepared:	2/14/02
Date Analyzed:	2/14/02
Dilution Factor	1

Metals by ICP - USEPA Method 6010

Analyte	Result (mg/L)	PQL	MDL	Flags
Aluminum	0.197	0.2	0.0104	J
Barium	0.0047	0.005	0.00106	J
Beryllium	ND	0.002	0.000809	
Calcium	10	1	0.00614	
Chromium	ND	0.01	0.00835	
Cobalt	ND	0.005	0.00136	
Copper	0.00649	0.01	0.00392	J
Iron	0.41	0.1	0.0202	
Magnesium	1.19	1	0.00997	
Manganese	0.00361	0.005	0.000919	J
Nickel	ND	0.01	0.00204	
Potassium	1.54	1	0.0487	
Silver	ND	0.01	0.002	
Sodium	4.01	1	0.725	
Strontium	0.0911	0.05	0.0182	
Vanadium	0.00666	0.005	0.00274	
Zinc	0.0321	0.01	0.0063	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-003
Lab ID:	103972-01
Date Received:	2/13/02
Date Prepared:	2/14/02
Date Analyzed:	2/14/02
Dilution Factor	1

Metals by ICP-MS - USEPA Method 6020

Analyte	Result (mg/L)	PQL	MDL	Flags
Arsenic	ND	0.002	0.002	
Antimony	0.000525	0.003	0.0000201	J B2
Cadmium	ND	0.0005	0.0000833	
Lead	0.000131	0.0005	0.0000232	J
Selenium	ND	0.004	0.004	
Thallium	ND	0.0005	0.0000473	
Uranium	ND	0.0001	0.0001	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-003
Lab ID:	103972-01
Date Received:	2/13/02
Date Prepared:	2/15/02
Date Analyzed:	2/15/02
Dilution Factor	1

Mercury by CVAA - USEPA Method 7470

Analyte	Result (mg/L)	PQL	MDL	Flags
Mercury	ND	0.0002	0.000131	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-004
Lab ID:	103972-02
Date Received:	2/13/02
Date Prepared:	2/14/02
Date Analyzed:	2/14/02
Dilution Factor	1

Metals by ICP - USEPA Method 6010

Analyte	Result (mg/L)	PQL	MDL	Flags
Aluminum	0.125	0.2	0.0104	J
Barium	0.0182	0.005	0.00106	
Beryllium	ND	0.002	0.000809	
Calcium	22.9	1	0.00614	
Chromium	ND	0.01	0.00835	
Cobalt	0.0123	0.005	0.00136	
Copper	ND	0.01	0.00392	
Iron	3.98	0.1	0.0202	
Magnesium	4.11	1	0.00997	
Manganese	0.0485	0.005	0.000919	
Nickel	0.0107	0.01	0.00204	
Potassium	4.37	1	0.0487	
Silver	ND	0.01	0.002	
Sodium	10.8	1	0.725	
Strontium	0.101	0.05	0.0182	
Vanadium	ND	0.005	0.00274	
Zinc	ND	0.01	0.0063	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-004
Lab ID:	103972-02
Date Received:	2/13/02
Date Prepared:	2/14/02
Date Analyzed:	2/14/02
Dilution Factor	1

Metals by ICP-MS - USEPA Method 6020

Analyte	Result (mg/L)	PQL	MDL	Flags
Arsenic	ND	0.002	0.002	
Antimony	0.000909	0.003	0.0000201	J B2
Cadmium	ND	0.0005	0.0000833	
Lead	0.000111	0.0005	0.0000232	J
Selenium	ND	0.004	0.004	
Thallium	ND	0.0005	0.0000473	
Uranium	ND	0.0001	0.0001	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-004
Lab ID:	103972-02
Date Received:	2/13/02
Date Prepared:	2/15/02
Date Analyzed:	2/15/02
Dilution Factor	1

Mercury by CVAA - USEPA Method 7470

Analyte	Result (mg/L)	PQL	MDL	Flags
Mercury	ND	0.0002	0.000131	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-303
Lab ID:	103972-03
Date Received:	2/13/02
Date Prepared:	2/14/02
Date Analyzed:	2/14/02
Dilution Factor	1

Metals by ICP - USEPA Method 6010

Analyte	Result (mg/L)	PQL	MDL	Flags
Aluminum	0.184	0.2	0.0104	J
Barium	0.00968	0.005	0.00106	
Beryllium	ND	0.002	0.000809	
Calcium	9.97	1	0.00614	
Chromium	ND	0.01	0.00835	
Cobalt	ND	0.005	0.00136	
Copper	0.00659	0.01	0.00392	J
Iron	0.384	0.1	0.0202	
Magnesium	1.22	1	0.00997	
Manganese	0.00729	0.005	0.000919	
Nickel	ND	0.01	0.00204	
Potassium	1.43	1	0.0487	
Silver	ND	0.01	0.002	
Sodium	4.09	1	0.725	
Strontium	0.0811	0.05	0.0182	
Vanadium	0.00614	0.005	0.00274	
Zinc	0.0214	0.01	0.0063	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-303
Lab ID:	103972-03
Date Received:	2/13/02
Date Prepared:	2/14/02
Date Analyzed:	2/14/02
Dilution Factor	1

Metals by ICP-MS - USEPA Method 6020

Analyte	Result (mg/L)	PQL	MDL	Flags
Arsenic	ND	0.002	0.002	
Antimony	0.000685	0.003	0.0000201	J B2
Cadmium	ND	0.0005	0.0000833	
Lead	0.000168	0.0005	0.0000232	J
Selenium	ND	0.004	0.004	
Thallium	ND	0.0005	0.0000473	
Uranium	ND	0.0001	0.0001	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-303
Lab ID:	103972-03
Date Received:	2/13/02
Date Prepared:	2/15/02
Date Analyzed:	2/15/02
Dilution Factor	1

Mercury by CVAA - USEPA Method 7470

Analyte	Result (mg/L)	PQL	MDL	Flags
Mercury	ND	0.0002	0.000131	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-003
Lab ID:	103972-01
Date Received:	2/13/02
Date Prepared:	2/14/02
Date Analyzed:	2/14/02
Dilution Factor	1

Dissolved Metals by ICP - USEPA Method 6010

Analyte	Result (mg/L)	PQL	MDL	Flags
Aluminum	0.0172	0.2	0.0104	J
Barium	0.00254	0.005	0.00106	J
Beryllium	ND	0.002	0.000809	
Calcium	10	1	0.00614	
Chromium	ND	0.01	0.00835	
Cobalt	ND	0.005	0.00136	
Copper	0.00419	0.01	0.00392	J
Iron	ND	0.1	0.0202	
Magnesium	1.16	1	0.00997	
Manganese	ND	0.005	0.000919	
Nickel	ND	0.01	0.00204	
Potassium	1.45	1	0.0487	
Silver	ND	0.01	0.002	
Sodium	4.1	1	0.725	
Strontium	0.0672	0.05	0.0182	
Vanadium	ND	0.005	0.00274	
Zinc	0.0178	0.01	0.0063	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-003
Lab ID:	103972-01
Date Received:	2/13/02
Date Prepared:	2/14/02
Date Analyzed:	2/14/02
Dilution Factor	1

Dissolved Metals by ICP-MS - USEPA Method 6020

Analyte	Result (mg/L)	PQL	MDL	Flags
Arsenic	ND	0.002	0.002	
Antimony	0.00015	0.003	0.0000201	J
Cadmium	ND	0.0005	0.0000833	
Lead	0.000117	0.0005	0.0000232	J
Selenium	ND	0.004	0.004	
Thallium	ND	0.0005	0.0000473	
Uranium	ND	0.0001	0.0001	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-003
Lab ID:	103972-01
Date Received:	2/13/02
Date Prepared:	2/15/02
Date Analyzed:	2/15/02
Dilution Factor	1

Dissolved Mercury by CVAA - USEPA Method 7470

Analyte	Result (mg/L)	PQL	MDL	Flags
Mercury	ND	0.0002	0.000131	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-004
Lab ID:	103972-02
Date Received:	2/13/02
Date Prepared:	2/14/02
Date Analyzed:	2/14/02
Dilution Factor	1

Dissolved Metals by ICP - USEPA Method 6010

Analyte	Result (mg/L)	PQL	MDL	Flags
Aluminum	0.0144	0.2	0.0104	J
Barium	0.011	0.005	0.00106	
Beryllium	ND	0.002	0.000809	
Calcium	22.5	1	0.00614	
Chromium	ND	0.01	0.00835	
Cobalt	0.0124	0.005	0.00136	
Copper	ND	0.01	0.00392	
Iron	3.71	0.1	0.0202	
Magnesium	4.02	1	0.00997	
Manganese	0.0469	0.005	0.000919	
Nickel	0.0102	0.01	0.00204	
Potassium	4.5	1	0.0487	
Silver	ND	0.01	0.002	
Sodium	11	1	0.725	
Strontium	0.111	0.05	0.0182	
Vanadium	ND	0.005	0.00274	
Zinc	ND	0.01	0.0063	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-004
Lab ID:	103972-02
Date Received:	2/13/02
Date Prepared:	2/14/02
Date Analyzed:	2/14/02
Dilution Factor	1

Dissolved Metals by ICP-MS - USEPA Method 6020

Analyte	Result (mg/L)	PQL	MDL	Flags
Arsenic	ND	0.002	0.002	
Antimony	0.000092	0.003	0.0000201	J
Cadmium	ND	0.0005	0.0000833	
Lead	ND	0.0005	0.0000232	
Selenium	ND	0.004	0.004	
Thallium	ND	0.0005	0.0000473	
Uranium	ND	0.0001	0.0001	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-004
Lab ID:	103972-02
Date Received:	2/13/02
Date Prepared:	2/15/02
Date Analyzed:	2/15/02
Dilution Factor	1

Dissolved Mercury by CVAA - USEPA Method 7470

Analyte	Result (mg/L)	PQL	MDL	Flags
Mercury	ND	0.0002	0.000131	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-303
Lab ID:	103972-03
Date Received:	2/13/02
Date Prepared:	2/14/02
Date Analyzed:	2/14/02
Dilution Factor	1

Dissolved Metals by ICP - USEPA Method 6010

Analyte	Result (mg/L)	PQL	MDL	Flags
Aluminum	0.0201	0.2	0.0104	J
Barium	0.00263	0.005	0.00106	J
Beryllium	ND	0.002	0.000809	
Calcium	10.1	1	0.00614	
Chromium	ND	0.01	0.00835	
Cobalt	ND	0.005	0.00136	
Copper	0.00402	0.01	0.00392	J
Iron	ND	0.1	0.0202	
Magnesium	1.15	1	0.00997	
Manganese	ND	0.005	0.000919	
Nickel	ND	0.01	0.00204	
Potassium	1.6	1	0.0487	
Silver	ND	0.01	0.002	
Sodium	4.22	1	0.725	
Strontium	0.0782	0.05	0.0182	
Vanadium	ND	0.005	0.00274	
Zinc	0.0182	0.01	0.0063	

STL Seattle

Client Name	URS Corporation
Client ID:	MW-303
Lab ID:	103972-03
Date Received:	2/13/02
Date Prepared:	2/14/02
Date Analyzed:	2/14/02
Dilution Factor	1

Dissolved Metals by ICP-MS - USEPA Method 6020

Analyte	Result (mg/L)	PQL	MDL	Flags
Arsenic	ND	0.002	0.002	
Antimony	0.000197	0.003	0.0000201	J
Cadmium	ND	0.0005	0.0000833	
Lead	ND	0.0005	0.0000232	
Selenium	ND	0.004	0.004	
Thallium	ND	0.0005	0.0000473	
Uranium	ND	0.0001	0.0001	

STL Seattle

Client Name URS Corporation
Client ID: MW-303
Lab ID: 103972-03
Date Received: 2/13/02
Date Prepared: 2/15/02
Date Analyzed: 2/15/02
Dilution Factor 1

Dissolved Mercury by CVAA - USEPA Method 7470

Analyte	Result (mg/L)	PQL	MDL	Flags
Mercury	ND	0.0002	0.000131	

STL Seattle

Client Name URS Corporation
Project Name Former NPDLab SI, Troutdale, Or
Date Received 02-13-02

General Chemistry Parameters

Client Sample ID MW-003
Lab ID 103972-01

Parameter	Method	Date Analyzed	Units	Result	PQL
Cyanide	EPA 335.3	02-19-02	mg/L	ND	0.05

Client Sample ID MW-004
Lab ID 103972-02

Parameter	Method	Date Analyzed	Units	Result	PQL
Cyanide	EPA 335.3	02-19-02	mg/L	ND	0.05

Client Sample ID MW-303
Lab ID 103972-03

Parameter	Method	Date Analyzed	Units	Result	PQL
Cyanide	EPA 335.3	02-19-02	mg/L	ND	0.05

